

10/578263  
AP20 Rec'd PGTPTO 04 MAY 2006

K 39 161.WorkFile

Application Project

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<120> Title : Polyvalente Allergievakzine  
<130> AppFileReference : K 39 161/7sc  
<140> CurrentAppNumber :  
<141> CurrentFilingDate : \_\_\_\_-\_\_-\_\_

Sequence

-----  
<213> OrganismName : Unknown  
<400> PreSequenceString :  
MGETLLRAVE SYAGELELQF RRVCKKYTVA TAPEVKYTVF ETALK  
45  
<212> Type : PRT  
<211> Length : 45  
SequenceName : Hybirdpolypeptid (page 6)  
SequenceDescription :

Sequence

-----  
<213> OrganismName : Unknown  
<400> PreSequenceString :  
MEQKLRSAGE LELQFRRVKC KYPEGTKVEF GVFNYYETETT SVIPAARLKA FILDGDNLFP  
60  
KVAPOAINIE GNGGPGTKIS PEGFPFKYVK DRVDEVDHTN FKYNYSVIEG GPIGDTLEKI  
120  
SNEIKIVATP DGGSILKISN KYHTKGDHEV KAEQVKASKE GETLRVESYL LAHSDAYNKL  
180  
QAYAATVATA PEVKYTVFET ALKKATAMSE  
210  
<212> Type : PRT  
<211> Length : 210  
SequenceName : Konstrukt 1 (Phl p 1 - Bet v 1a - Phl p 5) -  
Aminosäuresequenz  
SequenceDescription :

Sequence

-----  
<213> OrganismName : Unknown  
<400> PreSequenceString :  
MAYAATVATA PEVKYTVFET ALKKAITAMS EEFGVFNYYET ETTSVIPAAAR LFKAFILDGD  
60  
NLFPKVAPQA ISSVENIEGN GGPGTIKKIS FPEGFPFKYV KDRVDEVDHT NFKYNYSVIE  
120  
GGPIGDTLEK ISNEIKIVAT PDGGSILKIS NKYHTKGDHE VKAEQVKASK EMGETLLRAV  
180  
ESYLLAHSDA YNKLEQKLRS AGELELQFRR VKCKYPEGTK V  
221  
<212> Type : PRT  
<211> Length : 221  
SequenceName : Konstrukt 2 (Phl p 5 - Bet v 1a - Phl p 1) -  
Aminosäuresequenz

## SequenceDescription :

## Sequence

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&lt;213&gt; OrganismName : Unknown

&lt;400&gt; PreSequenceString :

MGEFGVFNYE TETTSVIPAA RLFKAFILDG DNLFPPKVAPO AISSVENIEG NGGPGTIKKI

60

SFPEGFPFKY VKDRVDEVDH TNFKYNYSVI EGGPIGDTLE KISNEIKIVA TPDGGSILKI

120

SNKYHTKGDH EVKAEQVKAS KEMGETLLRA VESYLLAHS D AYNKLEQKLR SAGELELQFR

180

RVKCKYPEGT KVTSQAYAAT VATAPEVKYT VFETALKKAI TAMSE

225

&lt;212&gt; Type : PRT

&lt;211&gt; Length : 225

SequenceName : Konstrukt 3 (Bet v 1a - Phl p 1 - Phl p 5) -  
Aminosäuresequenz

SequenceDescription :

## Sequence

-----

&lt;213&gt; OrganismName : Unknown

&lt;400&gt; PreSequenceString :

MEQKLR SAGE LELQFRRVKC KYPEGTKVTS QAYAATVATA PEVKYTVFET ALKKAITAMS

60

EEFGVFNYET ETTSVIPFAAR LFKAFILDGD NLFPKVAPOA ISSVENIEGN GGPGTIKKIS

120

FPEGFPFKYV KDRVDEV DHT NFKYNYSVIE GGPIGDTLEK ISNEIKIVAT PDGGSILKIS

180

NKYHTKGDHE VKAEQVKASK EMGETLLRAV ESYLLAHSDA YN

222

&lt;212&gt; Type : PRT

&lt;211&gt; Length : 222

SequenceName : Konstrukt 4 (Phl p 1 - Phl p 5 - Bet v 1a) -  
Aminosäuresequenz

SequenceDescription :

## Sequence

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&lt;213&gt; OrganismName : Unknown

&lt;400&gt; PreSequenceString :

ccatggagca gaagctgcgc agcgccggcg agctggagct ccagttccgg cgcgtaagat

60

gcaagtaccc ggagggcacc aaggtggaat tcggtgtttt caattacgaa actgagacca

120

ccctctgttat cccagcagct cgactgttca aggcctttat ccttgatggc gataatctct

180

ttccaaaggt tgcaccccaa gccattagca gtgttgaaaa cattgaagga aatggagggc

240

ctggaaccat taagaagatc agctttcccg aaggcttccc tttcaagtac gtgaaggaca

300

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gagttgatga ggtggaccac acaaacttca aatacaatta cagcgtgatc gagggcggtc  
360  
ccataggcga cacatggaga agatctccaa cgagataaag atagtggcaa cccctgatgg  
420  
aggatccatc ttgaagatca gcaacaagta ccacacccaaa ggtgaccatg aggtgaaggc  
480  
agagcaggtt aaggcaagta aagaaatggg cgagacactt ttgagggccg ttgagagcta  
540  
cctcttggca cactccgatg cctacaacaa gcttcaggcc tacgccgcca ccgtcgccac  
600  
cgcgccggag gtcaagtaca ctgtctttga gaccgcactg aaaaaggcca tcaccgccat  
660  
gtccgaataa ctcgag  
676

<212> Type : DNA

<211> Length : 676

SequenceName : Konstrukt 1 (Phl p 1 - Bet v 1a - Phl p 5) -  
Nukleotidsequenz

SequenceDescription :

Custom Codon

-----  
Sequence Name : Konstrukt 1 (Phl p 1 - Bet v 1a - Phl p 5) - Nukle  
otidsequenz

Sequence

-----  
<213> OrganismName : Unknown

<400> PreSequenceString :

ccatggccta cgccgccacc gtcgccaccg cgccggagggt caagtacact gtctttgaga  
60  
ccgcactgaa aaaggccatc accgccatgt ccgaagaatt cgggtgttttc aattacgaaa  
120  
ctgagaccac ctctgttata ccagcagctc gactgttcaa ggcctttata cttgatggcg  
180  
ataatctctt tccaaagggt gcaccccaag ccattagcag tggtgaaaac attgaaggaa  
240  
atggaggggc tggaaccatt aagaagatca gctttcccga aggcttcctt ttcaagtacg  
300  
tgaaggacag agttgatgag gtggaccaca caaacttcaa atacaattac agcgtgatcg  
360  
agggcgggcc cataggcgac acatggagaa gatctccaac gagataaaga tagtggcaac  
420  
ccctgatgga ggatccatct tgaagatcag caacaagtac cacacccaaag gtgaccatga  
480  
ggtgaaggca gagcaggtta aggcaagtaa agaaatgggc gagacacttt tgagggccgt  
540  
tgagagctac ctcttggcac actccgatgc ctacaacaag cttgagcaga agctgcgcag  
600  
cgccggcgag ctggagctcc agttccggcg cgtcaagtgc aagtaccgag agggcaccaa  
660  
ggtgtaactc gag

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673

<212> Type : DNA

<211> Length : 673

SequenceName : Konstrukt 2 (Phl p 5 - Bet v 1a - Phl p 1) -  
Nukleotidsequenz  
SequenceDescription :

Custom Codon

-----  
Sequence Name : Konstrukt 2 (Phl p 5 - Bet v 1a - Phl p 1) - Nukle  
otidsequenz

Sequence

-----  
<213> OrganismName : Unknown  
<400> PreSequenceString :  
ccatgggaga attcgggtgtt ttcaattacg aaactgagac cacctctgtt atcccagcag  
60  
ctcgactgtt caaggccttt atccttgatg gcgataatct ctttccaaag gttgcacccc  
120  
aagccattag cagtgttgaa aacattgaag gaaatggagg gcctggaacc attaagaaga  
180  
tcagctttcc cgaaggcttc cctttcaagt acgtgaagga cagagttgat gaggtggacc  
240  
acacaaactt caaatacaat tacagcgtga tcgagggcgg tcccataggc gacacatgga  
300  
gaagatctcc aacgagataa agatagtggc aaccctgat ggaggatcca tcttgaagat  
360  
cagcaacaag taccacacca aaggtgacca tgaggtgaag gcagagcagg ttaaggcaag  
420  
taaagaaatg ggcgagacac ttttgagggc cgttgagagc tacctcttg gacactccga  
480  
tgcctacaac aagcttgagc agaagctgcg cagcgccggc gagctggagc tccagttccg  
540  
gcgcgtcaag tgcaagtacc cggagggcac caaggtgact agtcaggcct acgcccgcac  
600  
cgtcgccacc gcgcgggagg tcaagtacac tgtctttgag accgcactga aaaaggccat  
660  
caccgccatg tccgaataac tcgag  
685

<212> Type : DNA

<211> Length : 685

SequenceName : Konstrukt 3 (Bet v 1a - Phl p 1 - Phl p 5) -  
Nukleotidsequenz  
SequenceDescription :

Custom Codon

-----  
Sequence Name : Konstrukt 3 (Bet v 1a - Phl p 1 - Phl p 5) - Nukle  
otidsequenz

Sequence

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-----
<213> OrganismName : Unknown
<400> PreSequenceString :
ccatggagca gaagctgcgc agcgccggcg agctggagct ccagttccgg cgcgtcaagt
 60
gcaagtaccc ggagggcacc aaggtgacta gtcaggccta cgccgccacc gtcgccaccg
120
cgccggaggt caagtacact gtctttgaga ccgcactgaa aaaggccatc accgccatgt
180
ccgaagaatt cgggtgttttc aattacgaaa ctgagaccac ctctgttata ccagcagctc
240
gactgttcaa ggcctttata cttgatggcg ataatctctt tccaaagggt gcacccaag
300
ccattagcag tgttgaaaac attgaaggaa atggagggcc tggaaccatt aagaagatca
360
gctttcccga aggcttcctt ttcaagtacg tgaaggacag agttgatgag gtggaccaca
420
caaacttcaa atacaattac agcgtgatcg agggcggtcc catagggcac acatggagaa
480
gatctccaac gagataaaga tagtggcaac ccctgatgga ggatccatct tgaagatcag
540
caacaagtac cacaccaaag gtgaccatga ggtgaaggca gagcagggtta aggcaagtaa
600
agaaatgggc gagacacttt tgagggccgt tgagagctac ctcttggcac actccgatgc
660
ctacaactaa ctcgag
676
<212> Type : DNA
<211> Length : 676
      SequenceName : Konstrukt 4 (Phl p 1 - Phl p 5 - Bet v 1a) -
Nukleotidsequenz
      SequenceDescription :

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Custom Codon

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-----
Sequence Name : Konstrukt 4 (Phl p 1 - Phl p 5 - Bet v 1a) - Nukle
otidsequenz

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Sequence

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-----
<213> OrganismName : Unknown
<400> PreSequenceString :
catgccatgg agcagaagct gcgcagc
 27
<212> Type : DNA
<211> Length : 27
      SequenceName : Construct 1:          Pept 2 - Bet v 1a - Pept 4
(1a)
      SequenceDescription :

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Custom Codon

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Sequence Name : Construct 1: Pept 2 - Bet v 1a - Pept 4 (1a)

Sequence

-----

<213> OrganismName : Unknown

<400> PreSequenceString :

atgaattcca ccttggtgcc ctccgg

26

<212> Type : DNA

<211> Length : 26

SequenceName : Construct 1: Pept 2 - Bet v 1a - Pept 4

(1b)

SequenceDescription :

Custom Codon

-----

Sequence Name : Construct 1: Pept 2 - Bet v 1a - Pept 4(1b)

Sequence

-----

<213> OrganismName : Unknown

<400> PreSequenceString :

accaagcttc aggcctacgc cgccacc

27

<212> Type : DNA

<211> Length : 27

SequenceName : Construct 1: Pept 2 - Bet v 1a - Pept 4

(1c)

SequenceDescription :

Custom Codon

-----

Sequence Name : Construct 1: Pept 2 - Bet v 1a - Pept 4(1c)

Sequence

-----

<213> OrganismName : Unknown

<400> PreSequenceString :

ccgctcgagt tattcggaca tggcgggtgat

30

<212> Type : DNA

<211> Length : 30

SequenceName : Construct 1: Pept 2 - Bet v 1a - Pept 4

(1d)

SequenceDescription :

Custom Codon

-----

Sequence Name : Construct 1: Pept 2 - Bet v 1a - Pept 4(1d)

Sequence

-----

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<213> OrganismName : Unknown  
<400> PreSequenceString :  
accaagcttg agcagaagct gcgcage  
27

<212> Type : DNA

<211> Length : 27

SequenceName : Construct 2:           Pept 4 - Bet v 1a - Pept 2  
(2a)

SequenceDescription :

Custom Codon

-----  
Sequence Name : Construct 2:       Pept 4 - Bet v 1a - Pept 2(2a)

Sequence

-----  
<213> OrganismName : Unknown  
<400> PreSequenceString :  
ccgctcgagt tacaccttg tgccctccgg  
30

<212> Type : DNA

<211> Length : 30

SequenceName : Construct 2:           Pept 4 - Bet v 1a - Pept 2  
(2b)

SequenceDescription :

Custom Codon

-----  
Sequence Name : Construct 2:       Pept 4 - Bet v 1a - Pept 2(2b)

Sequence

-----  
<213> OrganismName : Unknown  
<400> PreSequenceString :  
catgccatgg cctacgccgc caccgtc  
27

<212> Type : DNA

<211> Length : 27

SequenceName : Construct 2:           Pept 4 - Bet v 1a - Pept 2  
(2c)

SequenceDescription :

Custom Codon

-----  
Sequence Name : Construct 2:       Pept 4 - Bet v 1a - Pept 2(2c)

Sequence

-----  
<213> OrganismName : Unknown  
<400> PreSequenceString :  
atgaattcctt cggacatggc ggtgat  
26

K 39 161.WorkFile

<212> Type : DNA  
<211> Length : 26  
SequenceName : Construct 2:           Pept 4 - Bet v 1a - Pept 2  
(2d)  
SequenceDescription :

Custom Codon

-----

Sequence Name : Construct 2:       Pept 4 - Bet v 1a - Pept 2(2d)

Sequence

-----

<213> OrganismName : Unknown  
<400> PreSequenceString :  
accaagcttg agcagaagct gcgcagc  
          27

<212> Type : DNA  
<211> Length : 27  
SequenceName : Construct 3:       Bet v 1a - Pept 2 - Pept 4  
(3a)  
SequenceDescription :

Custom Codon

-----

Sequence Name : Construct 3:       Bet v 1a - Pept 2 - Pept 4(3a)

Sequence

-----

<213> OrganismName : Unknown  
<400> PreSequenceString :  
ggactagtca ccttggtgcc ctccgg  
          26

<212> Type : DNA  
<211> Length : 26  
SequenceName : Construct 3:       Bet v 1a - Pept 2 - Pept 4  
(3b)  
SequenceDescription :

Custom Codon

-----

Sequence Name : Construct 3:       Bet v 1a - Pept 2 - Pept 4(3b)

Sequence

-----

<213> OrganismName : Unknown  
<400> PreSequenceString :  
ggactagtca ggcctacgcc gccacc  
          26

<212> Type : DNA  
<211> Length : 26  
SequenceName : Construct 3:       Bet v 1a - Pept 2 - Pept 4  
(3c)



SequenceDescription :

Custom Codon

Sequence Name : Construct 3: Bet v 1a - Pept 2 - Pept 4(3c)

Sequence

<213> OrganismName : Unknown  
<400> PreSequenceString :  
ccgctcgagt tattcggaca tggcgggtgat  
30

<212> Type : DNA

<211> Length : 30

SequenceName : Construct 3: Bet v 1a - Pept 2 - Pept 4  
(3d)

SequenceDescription :

Custom Codon

Sequence Name : Construct 3: Bet v 1a - Pept 2 - Pept 4(3d)

Sequence

<213> OrganismName : Unknown  
<400> PreSequenceString :  
catgccatgg agcagaagct gcgcagc  
27

<212> Type : DNA

<211> Length : 27

SequenceName : Construct 4: Pept 2 - Pept 4 - Bet v 1a  
(4a)

SequenceDescription :

Custom Codon

Sequence Name : Construct 4: Pept 2 - Pept 4 - Bet v 1a(4a)

Sequence

<213> OrganismName : Unknown  
<400> PreSequenceString :  
ggactagtca ccttggtgcc ctccggg  
27

<212> Type : DNA

<211> Length : 27

SequenceName : Construct 4: Pept 2 - Pept 4 - Bet v 1a  
(4b)

SequenceDescription :

Custom Codon

K 39 161.WorkFile

Sequence Name : Construct 4: Pept 2 - Pept 4 - Bet v 1a(4b)

Sequence

-----

<213> OrganismName : Unknown

<400> PreSequenceString :

ggactagtca ggcctacgcc gccacc

26

<212> Type : DNA

<211> Length : 26

SequenceName : Construct 4: Pept 2 - Pept 4 - Bet v 1a  
(4c)

SequenceDescription :

Custom Codon

-----

Sequence Name : Construct 4: Pept 2 - Pept 4 - Bet v 1a(4c)

Sequence

-----

<213> OrganismName : Unknown

<400> PreSequenceString :

atgaattcct cggacatggc ggtgat

26

<212> Type : DNA

<211> Length : 26

SequenceName : Construct 4: Pept 2 - Pept 4 - Bet v 1a  
(4d)

SequenceDescription :

Custom Codon

-----

Sequence Name : Construct 4: Pept 2 - Pept 4 - Bet v 1a(4d)

Sequence

-----

<213> OrganismName : Unknown

<400> PreSequenceString :

catgccatgg gagaattcgg tgttttcaat tacgaaactg

40

<212> Type : DNA

<211> Length : 40

SequenceName : Bet v 1a(5a)

SequenceDescription :

Custom Codon

-----

Sequence Name : Bet v 1a(5a)

Sequence

-----

<213> OrganismName : Unknown

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<400> PreSequenceString :  
ccgctcgagt ccaagcttgt tgtaggcacg ggagtgtg  
38

<212> Type : DNA

<211> Length : 38

SequenceName : Bet v 1a(5b)

SequenceDescription :

Custom Codon

-----

Sequence Name : Bet v 1a(5b)

Sequence

-----

<213> OrganismName : Unknown

<400> PreSequenceString :

ccgctcgagt tagttgtagg catcggagtg  
30

<212> Type : DNA

<211> Length : 30

SequenceName : Bet v 1a(5c)

SequenceDescription :

Custom Codon

-----

Sequence Name : Bet v 1a(5c)